CSKLS 368A Course Outline as of Fall 2014

CATALOG INFORMATION

Dept and Nbr: CSKLS 368A Title: GENERAL ARITHMETIC PT. 1
Full Title: General Arithmetic, Part 1
Last Reviewed: 1/27/2020

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	2.00	Lab Scheduled	1.00	4	Lab Scheduled	17.50
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00 Total Student Learning Hours: 122.50

Title 5 Category:	AA Degree Non-Applicable
Grading:	Grade or P/NP
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
This course covers addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. Includes application of arithmetic skills for problem-solving, interpretation of word problems, graphs, charts, and tables. Computer-assisted lab assignments reinforce lecture.

Prerequisites/Corequisites:

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: This course covers addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. Includes application of arithmetic skills for problem-solving, interpretation of word problems, graphs, charts, and tables. Computer-assisted lab assignments reinforce lecture. (Grade or P/NP)
Prerequisites/Corequisites:

Recommended:
Limits on Enrollment:
Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Not Certificate/Major Applicable

COURSE CONTENT

Student Learning Outcomes:
At the conclusion of this course, the student should be able to:
1. Demonstrate mastery of the basic arithmetic algorithms involving whole numbers, fractions, and decimals.
2. Define and give examples of basic arithmetic concepts taught in the course.
3. Apply arithmetic algorithms to word problems/situations.
4. Interpret basic data included in graphs, charts, and tables, and create simple graphs, charts, and tables from provided data.
5. Use academic literacy skills to improve studying and learning.

Objectives:
Upon completion of this course, students will be able to:

1. Perform basic operations of addition, subtraction, multiplication, and division of whole numbers, fractions, decimals, and mixed numbers.
2. Represent a number in its equivalent decimal and fraction form.
3. Use rounding and estimating to solve problems and verify answers.
4. Identify, define, and apply basic arithmetic concepts and vocabulary.
5. Interpret basic word problems, using whole numbers, fractions, and/or decimals and create appropriate math algorithms to solve them.
6. Interpret data from basic graphs, charts, and tables.
7. Identify support services for math offered in College Skills labs,Tutorial Centers, and instructor's student consultation hours.
8. Apply study and test-taking techniques to college math classes.
9. Apply basic arithmetic and problem-solving skills to college classes, the workplace, and daily life situations.

Topics and Scope:

I. Course orientation
   A. Math pathway
   B. Self-assessment and goal-setting
   C. Study techniques
   D. Support services, including:
      1. Math Lab
      2. Tutorial Center
      3. Student consultation hours
      4. Counseling
II. Whole numbers
   A. Place value and word names
   B. Expanded form and standard notation
   C. Rounding and estimating
   D. Addition, subtraction, multiplication, division
   E. Mean, median, mode
   F. Order of operations
   G. Word problems, charts, graphs, and tables
III. Fractions
   A. Definitions, including
      1. Numerator and denominator
      2. Proper and improper fractions
      3. Mixed numbers
   B. Equivalent fractions; reducing and building fractions
   C. Multiplying and dividing fractions and mixed numbers
   D. Prime factors, prime factorization, multiples
   E. Adding and subtracting like fractions, unlike fractions, and mixed numbers
   F. Word problems with fractions
IV. Decimals
   A. Place value and word names of decimal fractions
   B. Rounding decimals
   C. Conversions between decimals and fractions
   D. Listing decimals in order of value
   E. Addition, subtraction, multiplication, division of decimals
   F. Word problems, charts, graphs, and tables with decimals

Assignment:

1. Approximately 10-15 homework assignments
2. Approximately 10-15 quizzes
3. 2 unit tests
4. Final exam
5. 1-2 projects involving graphs, charts, tables, and/or word problems
6. Lab: 10-15 lab assignments
7. Course notebook with organized class notes and lab worksheets

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None	Writing 0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, lab assignments, projects	Problem solving 30 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, completion, short answer.	Exams 40 - 60%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation; course notebook	Other Category 10 - 20%

Representative Textbooks and Materials:
Arithmetic for College Students. Greaney, Matthew. 2011
Basic College Mathematics. Miller, Julie, O'Neill, Molly, & Hyde, Nancy. 2nd Ed. McGrawHill Higher Education. 2013
Instructor prepared materials